January 6, 2017

Shimon Mizrahi
Rainier Commons LLC
918 S. Horton Street, Suite 1018
Seattle, WA 98134

NVL LABS
INDUSTRIAL HYGIENE SERVICES
MANAGEMENT | TRAINING | LAB SERVICES
www.NVLLABS.com

Subject: **CLEARANCE REPORT:**
PRE and POST- Paint Removal Sample Collection for
PCBs and Metals in Settled Dust on Interior Surfaces
That were Outside of the Project Containment at Building 15

Site Address: **Rainier Commons**
3100 Airport Way S
Seattle WA

NVL Project #: **2012-494**

NVL Report #: **IPWPIIA-2**

Dear Mr. Mizrahi:

Please find below a summary of the testing performed by NVL Laboratories, Inc. (NVL) per Rainier Common's request for sampling of interior surfaces in Building 15 that are adjacent and outside of the primary containment barrier that was installed for the removal of the exterior paint on the south side of the building. The samples discussed in this report were collected both prior (PRE) and after (POST) the paint removal activities with the purpose to confirm adjacent surfaces were not contaminated from the project activities.

Executive Summary

Overall, the testing results provide measured levels for PCBs and metals in the settled dust for the interior spaces adjacent to the containment that was built outside of building 15 both PRE and POST activities involved with the removal of the exterior paint on the south wall.

- Comparison of the PRE and POST testing results does not provide any obvious evidence that any activities associated with the paint removal contaminated surfaces adjacent to the containment. Overall, it seems that background levels at the site remained the same. For many areas, the POST measured levels are lower than the PRE measured levels. It seems fair to conclude that no contamination occurred from the paint removal activities.
- There is variability in the individual results, particularly for the metals, but when looking at the results as a whole, there is no significant magnitude change between the PRE and POST results. In other words, the background level with some variability between locations remained the same.
- Most notable is that the identified action level of 10 µg /100 cm^2 for PCBs was not exceeded in any of the results both PRE and POST paint removal.
- Also notable is that for the six testing locations that had detectable levels of PCBs at the PRE test, the results of the POST test found five locations to have no detectable levels and one with a significantly reduced level of PCBs to be present on the surface[1].

[1] Following PRE-work wipe sampling, the area was cleaned.

Background

The exterior south wall of Building 15 at Rainier Commons had paint that contained polychlorinated biphenyls (PCBs). This paint was removed and part of the process in preparation of this work included the placement of a primary containment barrier on the interior wall surface of the south wall. In addition, a secondary containment barrier was placed in the interior two levels (level 100 and level 200) of Building 15 approximately six feet away from this primary containment barrier.

The settled dust samples documented in this report were collected from the surfaces on these two interior levels at locations that were between the primary and secondary barriers and from surfaces inside the building that were outside of the secondary barrier.

The purpose of testing performed was to initially identify the background level of PCBs and metals in the settled dust in the building prior to the exterior paint removal work and then to use this information to compare testing results from the same areas once paint removal activities were completed to evaluate if contamination occurred due to project activities.

Initial testing (PRE) specifically testing for PCBs in a one hundred square centimeter (100 cm^2) area and for metals in a one square foot (1 ft^2) area, was performed on June 24, 2016. Testing performed after the paint removal activities (POST) was on August 25, 2016. Both the PRE and POST test for PCBs in a one hundred square centimeter (100 cm^2) area and for metals in a one square foot (1 ft^2) area findings are documented and summarized in this report to allow comparison. The actual laboratory analysis reports are provided as attachments.

Sample Collection Methodology

A Certified Industrial Hygienist (CIH) oversaw all sample collection, analysis, data interpretation and reporting involved with this dust assessment.

All sample locations were mutually identified, reviewed and confirmed with Rainier Commons prior to sample collection. Testing locations that were “retested” (POST) to compare to the previous test results (PRE) were immediately adjacent to the initial locations (PRE). For general consistency the POST test locations where testing was repeated were located to the east of the initial locations.

A total of fourteen (14) PRE and POST locations were tested at building 15. These locations were:

- For a total of ten, five locations within the secondary containment that were between the primary and secondary barriers that were spread out generally even between the east and west ends on each of the two floors of the secondary containment
- For a total of one, an elevated surface inside the building that was located within the secondary containment.
- For a total of one, an elevated surface inside the building that was located outside of the barrier of the secondary containment.
- For a total of two, on each floor level, a floor surface inside the building that was located outside of the barrier of the secondary containment.

An additional three samples were collected during POST testing, one sample at three floor levels at the adjacent building under construction on the “bare” concrete surface.

All samples at each location were collected from a previously untested surface.

At each test location on each test date, in addition to collecting a single surface wipe sample for PCB analysis, a single wipe sample was also collected for selected metals (Chromium, Copper, Nickel, Zinc and Lead) analysis.

In order to collect a sample from the floor surface or on an elevated surface within the secondary containment, the plastic for the containment barrier was cut to expose the surface area to be tested. The plastic was folded back when samples were collected and once collected; the plastic was placed back and sealed with duct tape by Rainier Commons.

The collected field blanks for both PCBs and for metals were created by handling the media identically to how the actual sample media was handled when collecting a sample, including using clean nitrile gloves with each sample, but without contacting the media to any settled dust surface.

Wipe Samples for PCBs

- Surface samples for the presence of Polychlorinated Biphenyls (PCBs) were collected using a wiping technique with 2 inch square cotton gauze pads wetted with n-hexane which were previously prepared by NVL at the laboratory location and were placed in separate clean glass vials.
- Sample collection methodology followed steps described in *QAPP-IPWP2*.
- Surface areas sampled were measured using a disposable 100 square centimeter (100 cm^2) paper template. One template will be used per sample collected and then disposed.
- Clean nitrile gloves were used by the sampler at each location and were appropriately collected for disposal and replaced at each new location.
- All sample locations were identified, reviewed and confirmed with Rainier Commons personnel on site prior to sample collection.

Wipe Samples for Metals

- Surface samples for the presence of metals that could potentially be in the selected blasting media (Chromium, Copper, Nickel and Zinc) and potentially in the paint (Lead) were collected using a wiping technique using commercially prepared prepackaged wipes for lead dust sampling.
- Sample collection methodology followed the steps described in *QAPP-IPWP2*.
- Surface areas sampled were measured by creating a one foot square template by marking the area to be sampled using masking tape.
- Clean nitrile gloves were used by the sampler at each location and were appropriately collected for disposal and replaced at each new location.
- All sample locations were identified, reviewed and confirmed with Rainier Commons personnel on site prior to sample collection.

Collected samples were submitted to NVL Laboratories, Inc. for analysis using NVL's standard Chain of Custody Procedures.

NVL's standard Chain of Custody Procedures include:

- All samples having a unique field sample number that identifies it with specific collection details (including location/date/time) that cannot be reused.
- Personnel maintaining control and security of samples collected to prevent loss or possible tampering.
- Using a chain of custody form to transfer custody of samples to the laboratory.

- The chain of custody form includes fields for sample number, parameter for analyses, sample collection date and time, sampler, and custody transfer signature area.
- Samples collected are properly stored and relinquished to the laboratory for analysis as soon as practical.

Laboratory Analysis Method

Wipe Samples for PCBs

- PCB Arochlor content via EPA METHOD 8082A - POLYCHLORINATED BIPHENYLS (PCBs) BY GAS CHROMATOGRAPHY.
- The Method Reporting Limit requested and established was 0.050 µg/wipe.

Wipe Samples for Metals

- EPA Method 3051/6010C: Microwave Assisted Acid Digestion of Sediments, Sludges, Soils, and Oil.
- Samples were analyzed for metals previously determined to be present in abrasive blasting media that was used in earlier paint removal work; Chromium, Copper, Nickel and Zinc.
- Samples will also be analyzed for lead which may be in some exterior paints.
- Because it has also been tested for in the past at other locations, the analysis also included Mercury.

Sampling and Test Results

All samples were collected by Dave Leonard, CIH. The following table summarizes the testing information and laboratory results:

Table 1
PRE and POST- Paint Removal Sample Collection for PCBs and Metals in Settled Dust on Interior Surfaces Outside of the Project Containment at Building 15

PCB / Metals Sample #s	PRE or POST Paint Removal ?	Level & Sample Location	Total PCB Concentration ug/100 cm^2	Result Less than Action Level 10 µg / 100 cm^2?	Chrom-ium	Lead	Copper	Nickel	Zinc
					ug / ft^2				
0624-BLD15-200-**A**	**PRE**	Level 200 Floor / East End	**<0.05** No detectable levels of PCB Aroclors	**YES**	<4.0	**6.6**	**7.1**	<4.0	<4.0
0825-BLD15-200-**A**	**POST**	"	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	<4.0
0624-BLD15-200-**B**	**PRE**	Level 200 Floor / Between East End & Middle	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	<4.0
0825-BLD15-200-**B**	**POST**	"	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	**6.7**

Table 1
Continued (page 2 of 4)

PCB / Metals Sample #s	PRE or POST Paint Removal ?	Level & Sample Location	Total PCB Concentration ug/100 cm^2	Result Less than Action Level 10 µg / 100 cm^2?	Chrom-ium	Lead	Copper	Nickel	Zinc
					ug / ft^2				
0624-BLD15-200-**C**	**PRE**	Level 200 Floor / Middle	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	<4.0
0825-BLD15-200-**C**	**POST**	"	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	**16.0**
0624-BLD15-200-**D**	**PRE**	Level 200 Floor / Between West End & Middle	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	<4.0
0825-BLD15-200-**D**	**POST**	"	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	**8.9**
0624-BLD15-200-**E**	**PRE**	Level 200 Floor / West End	**<0.05**	**YES**	<4.0	**6.9**	<4.0	<4.0	<4.0
0825-BLD15-200-**E**	**POST**	"	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	**17.0**
0624-BLD15-100-**F**	**PRE**	Level 100 Floor / East End	**0.28** (Aroclor 1254 = 0.14) (Aroclor 1260 = 0.14)	**YES**	**16.0**	**27.0**	**19.0**	<4.0	**62.0**
0825-BLD15-100-**F**	**POST**	"	**<0.05**	**YES**	**18.0**	**9.5**	**11.0**	**4.2**	**48.0**
0624-BLD15-100-**G**	**PRE**	Level 100 Floor / Between East End & Middle	**0.48** (Aroclor 1254 = 0.24) (Aroclor 1260 = 0.24)	**YES**	**12.0**	**17.0**	**10.0**	<4.0	**41.0**
0825-BLD15-100-**G**	**POST**	"	**<0.05**	**YES**	**7.2**	**9.4**	**17.0**	**19.0**	**79.0**
0624-BLD15-100-**H**	**PRE**	Level 100 Floor / Middle	**0.18** (Aroclor 1254 = 0.06) (Aroclor 1260 = 0.12)	**YES**	**7.0**	**16.0**	**15.0**	<4.0	**46.0**
0825-BLD15-100-**H**	**POST**	"	**<0.05**	**YES**	<4.0	**10.0**	**8.0**	<4.0	**28.0**

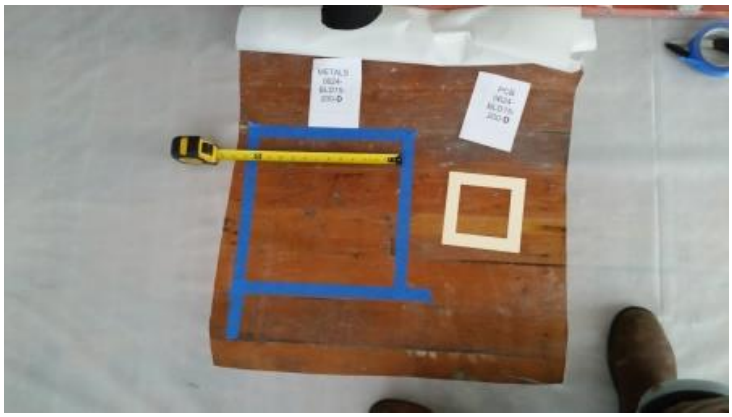
Table 1 continued (page 3 of 4)									
PCB / Metals Sample #s	PRE or POST Paint Removal ?	Level & Sample Location	Total PCB Concentration ug/100 cm^2	Result Less than Action Level 10 µg / 100 cm^2?	Chrom-ium	Lead	Copper	Nickel	Zinc
					ug / ft^2				
0624-BLD15-100-I	PRE	Level 100 Floor / Between West End & Middle	0.34 (Aroclor 1254 = 0.18) (Aroclor 1260 = 0.16)	YES	21.0	45.0	27.0	5.1	1100.0
0825-BLD15-100-I	POST	"	<0.05	YES	6.1	8.9	17.0	<4.0	80.0
0624-BLD15-100-J	PRE	Level 100 Floor / West End	1.76 (Aroclor 1254 = 1.40) (Aroclor 1260 = 0.36)	YES	26.0	60.0	44.0	8.3	300.0
0825-BLD15-100-J	POST	"	<0.05	-	8.2	7.8	22.0	<4.0	120.0
0624-BLD15-FB-K	PRE	Field Blank	<0.05	-	<4.0	<4.0	<4.0	<4.0	<4.0
0825-BLD15-FB-K	POST	"	<0.05	-	<4.0	<4.0	<4.0	<4.0	<4.0
0624-BLD15-FB-L	PRE	Field Blank	<0.05	-	<4.0	<4.0	<4.0	<4.0	<4.0
0825-BLD15-FB-L	POST	"	<0.05	-	<4.0	<4.0	<4.0	<4.0	<4.0
0624-BLD15-200-M	PRE	Level 200 Elevated Surface	<0.05	YES	<4.0	<4.0	6.2	<4.0	<4.0
0825-BLD15-200-M	POST	"	<0.05	YES	<4.0	<4.0	4.3	<4.0	32.0
0624-BLD15-100-N	PRE	Level 100 Elevated Surface	<0.05	YES	<4.0	<4.0	8.4	<4.0	<4.0
0825-BLD15-100-N	POST	"	<0.05	YES	5.3	11.0	37.0	<4.0	86.0
0624-BLD15-200-O	PRE	Level 200 Floor outside	<0.05	YES	<4.0	<4.0	<4.0	<4.0	<4.0
0825-BLD15-200-O	POST	"	<0.05	YES	<4.0	<4.0	<4.0	<4.0	<4.0

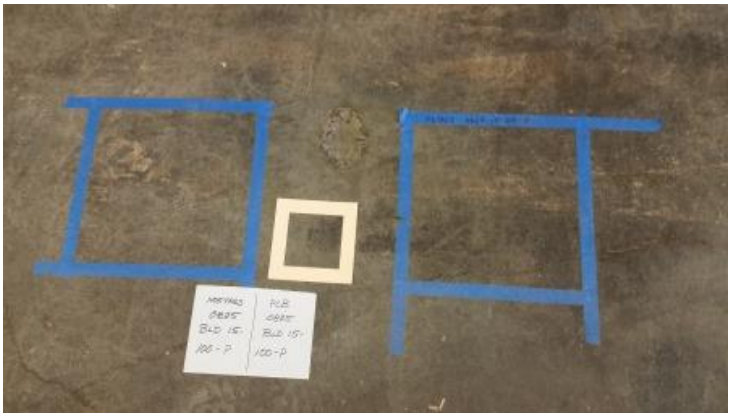
Table 1 continued (page 4 of 4)									
PCB / Metals Sample #s	PRE or POST Paint Removal ?	Level & Sample Location	Total PCB Concentration ug/100 cm^2	Result Less than Action Level 10 µg / 100 cm^2?	Chrom-ium	Lead	Copper	Nickel	Zinc
					ug / ft^2				
0624-BLD15-100-**P**	**PRE**	Level 100 Floor outside	**0.49** (Aroclor 1254 = 0.27) (Aroclor 1260 = 0.22)	**YES**	**12.0**	**31.0**	**150.0**	**5.0**	**220.0**
0825-BLD15-100-**P**	**POST**	"	**0.15** (Aroclor 1254 = 0. 078) (Aroclor 1260 = 0.072)	**YES**	**10.0**	**16.0**	**42.0**	<4.0	**130.0**
0825-NEW-100-**Q**	**POST**	Level 100 Floor New Construction	**0.138** (Aroclor 1254 = 0.07) (Aroclor 1260 = 0.068)	**YES**	**13.0**	**8.7**	**40.0**	**5.5**	**160.0**
0825-NEW-200-**R**	**POST**	Level 200 Floor New Construction	**0.05** Aroclor 1260 is present at the reporting limit (0.05ug/100cm2).	**YES**	<4.0	<4.0	**5.2**	<4.0	**45.0**
0825-NEW-300-**S**	**POST**	Level 300 Floor New Construction	**<0.05**	**YES**	<4.0	<4.0	<4.0	<4.0	**49.0**

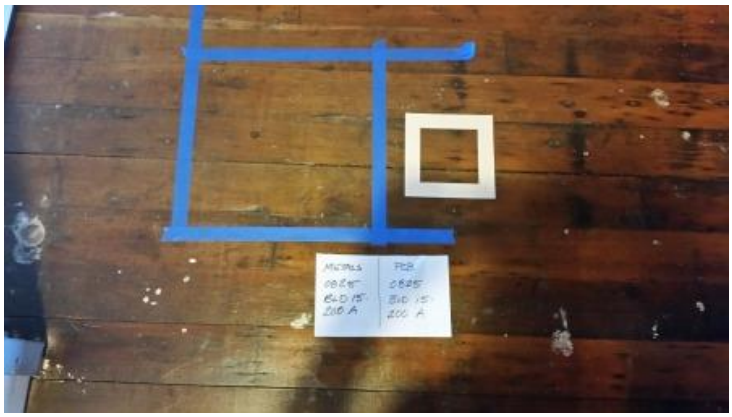
Report of actual value in table, indicates reported value is above reporting limit. < and value indicates value is below reporting limit.
Minimum reporting limit for all Aroclors = 0.050 ug/100 cm2. Only Aroclors above reporting limit are indicated or summed in this table.
Minimum reporting limit for Chromium, Lead, Copper, Nickel and Zinc = 4.0 ug / ft^2

Photographs

The following photographs provide visual information and examples about the testing conditions when samples were collected. Please note that not every sample location and condition is depicted:

#	Photograph	Notes
1		**PRE PAINT REMOVAL** **Test Location** **0624-BLD15-200-D** **June 24, 2016** Representing all test locations for June 24, 2016: • Surface areas sampled for PCBs were measured using a disposable 100 square centimeter (100 cm^2) paper template. Only a single area of 100 cm^2 was sampled per location. • Surface areas sampled for metals were measured by creating a one foot square template by marking the area to be sampled using masking tape. In this photo, the hardwood floor of level 200 can be seen.

2		**PRE PAINT REMOVAL** **Test Location** **0624-BLD15-100-G** **June 24, 2016** Representing and showing all testing locations for June 24, 2016. POST-work locations are immediately adjacent to the initial locations. The plastic floor for the containment barrier was cut to access and test the actual floor surface. In this photo, the concrete floor of level 100 can be seen.
3		**POST PAINT REMOVAL** **Test Location** **0825-BLD15-100-P** **August 25, 2016** Representing all POST testing locations used to compare results to the PRE test results were immediately adjacent to the initial locations. For general consistency the new test location (left side of photo) where POST testing was performed was located to the east of the initial PRE testing location (right side of photo). In this photo, the concrete floor of level 100 can be seen.

4		**POST PAINT REMOVAL** **Test Location** **0825-BLD15-200-A** **August 25, 2016** Representing all test locations for August 25, 2016: • Surface areas sampled for PCBs were measured using a disposable 100 square centimeter (100 cm^2) paper template. Only a single area of 100 cm^2 was sampled per location. • Surface areas sampled for metals were measured by creating a one foot square template by marking the area to be sampled using masking tape. In this photo, the hardwood floor of level 200 can be seen.

Discussion / Conclusions

In the following text, the term PRE is used to refer to testing performed on June 24, 2016, which was before the paint removal activities occurred. The term POST is used to refer to testing performed on August 25, 2016, which was after the paint removal activities had occurred.

PCBs:

- PRE — Of the fourteen actual settled dust samples collected on June 24, 2016, nine had no detection of PCBs and six had detectable levels of PCBs.
- PRE & POST — The Reporting Limit (RL) for the analysis of all PCBs collected samples was below 0.05 µg/100 cm^2.
- PRE — The six testing locations that had detectable levels of PCBs were all located on the 100 level of building 15. Five of these locations were between the primary containment barrier on the interior wall surface and the secondary containment barrier. One of the locations was adjacent to and outside of the secondary containment barrier.
- PRE — For the six samples that detected PCBs, the total PCB levels ranged from 0.18 to 1.76 µg /100 cm^2.
- PRE & POST — All PCB results were below the identified action level of 10 µg /100 cm^2.
- PRE & POST — The PCB types detected were Aroclor 1254 and Aroclor 1260.
- PRE & POST — It was noted at the time samples were collected at building 15 that the floor surface on the 100 level is concrete and on the 200 level is hardwood.
- POST — For the six testing locations that had detectable levels of PCBs at the PRE test, the results of the POST test found five locations to have no detectable levels and one with a significantly reduced level of PCBs to be present on the surface.

- POST POST testing of the initial fourteen locations found only one location to have detectable PCBs. The detectable PCBs were found in sample "P" which is on level 100 at a location that was outside of the secondary containment barrier.
- POST PRE testing at sample location "P" identified a PCB concentration of 0.49 µg/100 cm^2. The POST testing result was a reduced amount at 0.15 µg/100 cm^2. Both PRE and POST results are below the identified action level of 10 µg /100 cm^2.
- POST No notable or visible potential contamination was seen at the times samples were collected. As noted earlier, the floor surface on the 100 level is concrete and had dirt trapped on the rough areas of the surface.
- POST Additional POST samples were collected at each of the three newly adjacent floor areas at the building under construction. These areas were not tested as part of the PRE test due to the fact they were in the construction area. Two of the three sample locations had detectable levels of PCBs.
- POST The results for these two samples were 0.138 and 0.05 µg /100 cm^2. Both of these results are below the identified action level of 10 µg /100 cm^2.
- POST The floor surface in the new construction area at the time testing was performed was "bare" concrete.
- POST Based on the findings of the PRE and POST testing done outside of the containment, and knowledge of how the paint removal activities were conducted, there is good basis to conclude that the PCBs detected and documented in this report are a result of the historical environment at the site and represent a "background level" rather than being from any activities associated with the paint removal project.

Metals:

- PRE For the fourteen actual samples collected, metals were primarily detected on the 100 level versus the 200 level.
- PRE Lead was detectable in two of the five samples on the 200 level.
- PRE Copper was detectable in one of the five samples on the 200 level.
- POST For the fourteen test locations, it is fair to state in general that for many of the detected metal concentrations that the POST results had levels that measured less than the PRE results.
- POST No POST results were strikingly different than the PRE results. The single exception to this was sample location P where there were detectable levels of all five metals in the POST results versus all five metals were below the level of detection in the PRE results.
- POST Location P is the same location that also had a measureable level of PCBs with both the PRE and POST results.
- POST Metals were also found on the POST surfaces tested in the adjacent building under construction. Levels detected were in the range and magnitude of the other sample test results.

As noted above, the floor surface on the 100 level is concrete and on the 200 level it is hardwood. The texture of the concrete surface was noted to be rougher and that it visibly trapped more dust/debris. This may be part of the explanation for why the samples from level 100 had detectable levels of PCBs and metals during the PRE testing when compared to the samples collected at the

same time from the 200 level which had no detectable level of PCBs and a few limited areas that had detectable levels of select metals.

Overall, the testing results provide measured levels for PCBs and metals in the settled dust for the interior spaces adjacent to the containment that was built outside of building 15 both PRE and POST activities involved with the removal of the exterior paint on the south wall.

- Comparison of the PRE and POST testing results does not provide any obvious evidence that any activities associated with the paint removal contaminated surfaces adjacent to the containment. Overall, it seems that background levels at the site remained the same. For many areas, the POST measured levels are lower than the PRE measured levels. It seems fair to conclude that no contamination occurred from the paint removal activities.
- There is variability in the individual results, particularly for the metals, but when looking at the results as a whole, there seems to be no significant magnitude change between the PRE and POST results. In other words, the background level with some variability between locations remained the same.
- Most notable is that the identified action level of 10 µg /100 cm^2 for PCBs was not exceeded in any of the results both PRE and POST paint removal.
- Also notable is that for the five testing locations that had detectable levels of PCBs at the PRE test, the results of the POST test found no detectable level of PCBs to be present.

Closing

This document is the sole property of NVL Laboratories and Rainier Commons, the building owner.

NVL appreciates the opportunity to provide the testing service to Rainier Commons and trust this report documenting the sample collection and results meets your needs as requested. Please contact NVL if information is needed at any time regarding the information provided in this report.

Sincerely,

Dave Leonard CIH
Certified Industrial Hygienist

ATTACHMENTS:

- NLV Laboratories, INC. Laboratory Reports:
  - PRE - June 24, 2016
    - PCBs: 1613176
    - Metals: 1613185
  - POST - August 25, 2016
    - PCBs: 1617458
    - Metals: 1617457

June 28, 2016

Mr. Dave Leonard

NVL Field Services Division
4708 Aurora Ave. N.
Seattle, 98103

Re: **NVL Batch 1613176.00**

Project Name/Number: 2012-494

Project location: 3317 3rd Avenue South Seattle, WA 98134

Dear Mr. Leonard,

Enclosed please find test results for samples submitted to our laboratory for analysis. Preparation and analysis of these samples were conducted in accordance with published industry standards and methods specified on the attached analytical report.

The content of this package consists of the following:

-Case Narrative & Definition of Data Qualifiers
-Analytical Test Results
-Applicable QC Summary
-Client Chain-of-Custody (CoC)
-NVL Receiving Record

The report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client will be discarded after two weeks.

Thank you for using our laboratory services. If you need further assistance, please contact us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

Enclosure: Sample Results

Case Narrative:

The following summarizes samples received on date as shown on the accompanied Chain of custody by NVL Laboratories, Inc. from NVL Field Services Division for Project number: 2012-494.Samples were logged in for PCB analysis per client request using both customer sample ID's and laboratory assigned ID's as listed on the Chain-of-Custody (CoC). All samples as received were processed and analyzed within specified turnaround time without any abnormalities and deviations that may affect the analytical results. All quality control requirements were acceptable unless stated otherwise. The conditions of all samples were acceptable at time of receipt and all samples submitted with this batch were analyzed unless stated otherwise on the CoC.

Test Results are reported as microgram per hundred square centimeter(ug/100cm2) for PCB samples as shown on the analytical reports.

NVL Laboratories, Inc.
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p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Definition Appendix

Terms

% Rec	Percent recovery.
<	Below Reporting Limit(RL) or Limit of Quantitation(LoQ) of the instrument.
B	Blank contamination. The recorded results is associated with a contaminated blank.
DF	Dilution Factor
J	The reported concentration is an estimated value because something may be present in the sample that interfered with the analysis.
J1	The reported concentration is an estimated value because the laboratory control sample (LCS) is out of control limits.
J2	The reported concentration is an estimated value because the percent recovery for matrix spike is out of control limits.
J3	The reported concentration is an estimated value because the relative percent difference(RPD) for duplicate analysis is out of control limits.
J4	Percent recovery is outside of established control limits.
LCS	Laboratory Control Sample.
LFS	Laboratory Fortified Spike
Limits	The upper and lower control limits for spike recoveries.
LN	Quality control sample is outside of control limits. This analyte was not detected in the sample.
LOQ	Limit of quantitation(same as RL)
mg/kg	Milligrams per kilogram.
ND	Analyte not detected or below the reporting limit of the instrument or methodology

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
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Definition Appendix

Terms

PPM	Parts per Million.
QC Batch Group	Quality Control Batch Group. The entity that links analytical results and supporting quality control results.
R	The data are not reliable due to possible contamination or loss of material during preparation or analysis. Re-sampling and reanalysis are necessary for verification.
RL	Reporting Limit. The minimum concentration that can be quantified under routine operating conditions.
RPD	Relative Percent Difference. The relative difference between duplicate results(matrix spike, blank spike, or samples duplicate) expressed as a percentage.
RPD Limit	The maximum RPD allowed for a set of duplicate measurements(see RPD).
SMI	Surrogate has matrix interference.
Spike Conc.	The measured concentration, in sample basis units, of a spiked sample.
SURR-ND	Surrogate was not detected due to matrix interference or dilution.
ug/m3	Micrograms per cubic meter.
ug/mL	Micrograms per milliliter
ug	Microgram
ug/100cm2	Micrograms per 100 square centimeters

ORGANICS LABORATORY SERVICES

NVL LABS

Company	NVL Field Services Division	**NVL Batch Number**	**1613176.00**
Address	4708 Aurora Ave. N. Seattle, WA 98103	**TAT**	2 Days AH No
		Rush TAT	
Project Manager	Mr. Dave Leonard	**Due Date**	6/28/2016 **Time** 2:45 PM
Phone	(206) 547-0100	**Email**	Dave.l@nvllabs.com
Cell	(b) (6)	**Fax**	(206) 634-1936

Project Name/Number: 2012-494 **Project Location:** 3317 3rd Avenue South Seattle, WA 98134

Subcategory Quantitative analysis

Item Code ORG-03 **Method** 8082 PCB Aroclors <Wipe>

Total Number of Samples 16 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	16234902	PCB-0624-BLD15-200-A		A
2	16234903	PCB-0624-BLD15-200-B		A
3	16234904	PCB-0624-BLD15-200-C		A
4	16234905	PCB-0624-BLD15-200-D		A
5	16234906	PCB-0624-BLD15-200-E		A
6	16234907	PCB-0624-BLD15-100-F		A
7	16234908	PCB-0624-BLD15-100-G		A
8	16234909	PCB-0624-BLD15-100-H		A
9	16234910	PCB-0624-BLD15-100-I		A
10	16234911	PCB-0624-BLD15-100-J		A
11	16234912	PCB-0624-BLD15-CON-K		A
12	16234913	PCB-0624-BLD15-CON-L		A
13	16234914	PCB-0624-BLD15-200-M		A
14	16234915	PCB-0624-BLD15-100-N		A
15	16234916	PCB-0624-BLD15-200-O		A
16	16234917	PCB-0624-BLD15-100-P		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Maxwell Raymond		NVL	6/24/16	1445
Analyzed by	Shalini Patel		NVL	6-27-16	1400
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: See Clients COC for Reporting Instructions

Entered By: Maxwell Raymond Date: 6/24/2016 Time: 3:55 PM 1 of 1

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RCLLC 0007278

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Client	**NVL Field Services Division**	Samples Received*	**16**
SDG Number	**1613176.00**	Analyzed By	**Shalini Patel**
Date Reported	**06/28/2016**	Samples Analyzed*	**16**
Project Number	**2012-494**	Analysis Method	**8082A**
Location	**3317 3rd Avenue South Seattle, WA 98134**	Preparation Method	**3546PR (PCB)**

* for this test only

Sample Number	**PCB-0624-BLD15-200-A**	Received	06/24/2016
Lab Sample ID	16234902	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

Sample Number	**PCB-0624-BLD15-200-B**	Received	06/24/2016
Lab Sample ID	16234903	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0624-BLD15-200-C**	Received	06/24/2016
Lab Sample ID	16234904	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

Sample Number	**PCB-0624-BLD15-200-D**	Received	06/24/2016
Lab Sample ID	16234905	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0624-BLD15-200-E**	Received	06/24/2016
Lab Sample ID	16234906	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

Sample Number	**PCB-0624-BLD15-100-F**	Received	06/24/2016
Lab Sample ID	16234907	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	0.14	06/27/2016
Aroclor-1260	0.050	0.14	06/27/2016
PCBs, Total	**0.050**	**0.28**	**06/27/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0624-BLD15-100-G**	Received	06/24/2016
Lab Sample ID	16234908	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	0.24	06/27/2016
Aroclor-1260	0.050	0.24	06/27/2016
PCBs, Total	**0.050**	**0.48**	**06/27/2016**

Sample Number	**PCB-0624-BLD15-100-H**	Received	06/24/2016
Lab Sample ID	16234909	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	0.06	06/27/2016
Aroclor-1260	0.050	0.12	06/27/2016
PCBs, Total	**0.050**	**0.18**	**06/27/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0624-BLD15-100-I**	Received	06/24/2016
Lab Sample ID	16234910	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	0.18	06/27/2016
Aroclor-1260	0.050	0.16	06/27/2016
PCBs, Total	**0.050**	**0.34**	**06/27/2016**

Sample Number	**PCB-0624-BLD15-100-J**	Received	06/24/2016
Lab Sample ID	16234911	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	1.4	06/27/2016
Aroclor-1260	0.050	0.36	06/27/2016
PCBs, Total	**0.050**	**1.76**	**06/27/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0624-BLD15-CON-K**	Received	06/24/2016
Lab Sample ID	16234912	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

Sample Number	**PCB-0624-BLD15-CON-L**	Received	06/24/2016
Lab Sample ID	16234913	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0624-BLD15-200-M**	Received	06/24/2016
Lab Sample ID	16234914	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

Sample Number	**PCB-0624-BLD15-100-N**	Received	06/24/2016
Lab Sample ID	16234915	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0624-BLD15-200-O**	Received	06/24/2016
Lab Sample ID	16234916	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	< 0.050	06/27/2016
Aroclor-1260	0.050	< 0.050	06/27/2016
PCBs, Total	**0.050**	**<0.05**	**06/27/2016**

Sample Number	**PCB-0624-BLD15-100-P**	Received	06/24/2016
Lab Sample ID	16234917	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	06/27/2016
Aroclor-1221	0.050	< 0.050	06/27/2016
Aroclor-1232	0.050	< 0.050	06/27/2016
Aroclor-1242	0.050	< 0.050	06/27/2016
Aroclor-1248	0.050	< 0.050	06/27/2016
Aroclor-1254	0.050	0.27	06/27/2016
Aroclor-1260	0.050	0.22	06/27/2016
PCBs, Total	**0.050**	**0.49**	**06/27/2016**

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Quality Control Results

Project Number:	**2012-494**	**SDG Number:**	**1613176**
		Project Manager:	**Dave Leonard**
QC Batch(es):	**Q430**	Analysis Method:	**8082A**
QC Batch Method:	3546PR (PCB)	Analysis Description:	Polychlorinated Biphenyls by Gas Chromatography
Preparation Date:	06/27/2016		

Blank: BLK-1613176

Analyte	Blank Result	Units	DF	RL	Control Limit	Qualifiers
Aroclor-1016	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1221	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1232	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1242	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1248	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1254	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1260	ND	ug/100cm2	1	0.050	0.05	
PCBs, Total	ND	ug/100cm2	1	0.050	0.05	
Surrogates:				% Rec		
Tetrachloro-m-xylene			1	94	40-140	
Decachlorobiphenyl			1	99	40-140	

Lab Control Sample: LCS-1254-1613176

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Aroclor-1254	0.182	ug/100cm2	1	0.200	91	40-140	
Surrogates:							
Tetrachloro-m-xylene			1		103	40-140	

Lab Control Sample: LCS-1016-1613176
Lab Control Sample Duplicate: LCS Dup-1016-1613176

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Aroclor-1016	0.192	ug/100cm2	1	0.200	96	40-140			
	0.186			0.200	93	40-140	3	50	
Surrogates:									
Tetrachloro-m-xylene			1		99	40-140			
					99	40-140			

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Surrogate Recovery Summary Report

Client NVL Field Services Division **SDG Number** 1613176

Project 2012-494

Customer Sample ID	Lab Sample ID	Analyte	Recovery	Limits
PCB-0624-BLD15-200-A	16234902	Decachlorobiphenyl	80%	40-140
PCB-0624-BLD15-200-A	16234902	Tetrachloro-m-xylene	74%	40-140
PCB-0624-BLD15-200-B	16234903	Decachlorobiphenyl	83%	40-140
PCB-0624-BLD15-200-B	16234903	Tetrachloro-m-xylene	75%	40-140
PCB-0624-BLD15-200-C	16234904	Decachlorobiphenyl	89%	40-140
PCB-0624-BLD15-200-C	16234904	Tetrachloro-m-xylene	82%	40-140
PCB-0624-BLD15-200-D	16234905	Decachlorobiphenyl	90%	40-140
PCB-0624-BLD15-200-D	16234905	Tetrachloro-m-xylene	85%	40-140
PCB-0624-BLD15-200-E	16234906	Decachlorobiphenyl	83%	40-140
PCB-0624-BLD15-200-E	16234906	Tetrachloro-m-xylene	79%	40-140
PCB-0624-BLD15-100-F	16234907	Decachlorobiphenyl	87%	40-140
PCB-0624-BLD15-100-F	16234907	Tetrachloro-m-xylene	79%	40-140
PCB-0624-BLD15-100-G	16234908	Decachlorobiphenyl	74%	40-140
PCB-0624-BLD15-100-G	16234908	Tetrachloro-m-xylene	75%	40-140
PCB-0624-BLD15-100-H	16234909	Decachlorobiphenyl	81%	40-140
PCB-0624-BLD15-100-H	16234909	Tetrachloro-m-xylene	79%	40-140
PCB-0624-BLD15-100-I	16234910	Decachlorobiphenyl	80%	40-140
PCB-0624-BLD15-100-I	16234910	Tetrachloro-m-xylene	79%	40-140
PCB-0624-BLD15-100-J	16234911	Decachlorobiphenyl	85%	40-140
PCB-0624-BLD15-100-J	16234911	Tetrachloro-m-xylene	70%	40-140
PCB-0624-BLD15-CON-K	16234912	Decachlorobiphenyl	88%	40-140
PCB-0624-BLD15-CON-K	16234912	Tetrachloro-m-xylene	83%	40-140
PCB-0624-BLD15-CON-L	16234913	Decachlorobiphenyl	80%	40-140
PCB-0624-BLD15-CON-L	16234913	Tetrachloro-m-xylene	72%	40-140
PCB-0624-BLD15-200-M	16234914	Decachlorobiphenyl	66%	40-140
PCB-0624-BLD15-200-M	16234914	Tetrachloro-m-xylene	59%	40-140
PCB-0624-BLD15-100-N	16234915	Decachlorobiphenyl	90%	40-140
PCB-0624-BLD15-100-N	16234915	Tetrachloro-m-xylene	80%	40-140
PCB-0624-BLD15-200-O	16234916	Decachlorobiphenyl	77%	40-140

* Recovery outside limits

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Surrogate Recovery Summary Report

Client NVL Field Services Division **SDG Number** 1613176

Project 2012-494

Customer Sample ID	Lab Sample ID	Analyte	Recovery	Limits
PCB-0624-BLD15-200-O	16234916	Tetrachloro-m-xylene	66%	40-140
PCB-0624-BLD15-100-P	16234917	Decachlorobiphenyl	70%	40-140
PCB-0624-BLD15-100-P	16234917	Tetrachloro-m-xylene	68%	40-140
BLK-1613176	BLK-1613176	Decachlorobiphenyl	99%	40-140
BLK-1613176	BLK-1613176	Tetrachloro-m-xylene	94%	40-140
LCS Dup-1016-1613176	LCS Dup-1016-1613176	Tetrachloro-m-xylene	99%	40-140
LCS-1016-1613176	LCS-1016-1613176	Tetrachloro-m-xylene	99%	40-140
LCS-1254-1613176	LCS-1254-1613176	Tetrachloro-m-xylene	103%	40-140

* Recovery outside limits

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

SDG No: **1613176** Contract:

Determination: **8082 PCB Aroclors <Wipe>**

Run	Sample	Source	Analyzed	Analyte	True	Found	Unit	% Rec	Limits
R000423	CCV1-1016-1260	PCB_2016-2-2	06/27/2016	Aroclor-1016	0.02	0.02	ug/mL	100	80-120
		PCB_2016-2-2	06/27/2016	Aroclor-1260	0.02	0.02	ug/mL	100	80-120
	CCV1- 1254	PCB_2016-2-2	06/27/2016	Aroclor-1254	0.02	0.02	ug/mL	100	80-120
	ICV 1016-1254-1260	PCB_2016-1-15	06/27/2016	Aroclor-1016	0.1	0.093	ug/mL	93	85-115
		PCB_2016-1-15	06/27/2016	Aroclor-1254	0.1	0.091	ug/mL	91	85-115
		PCB_2016-1-15	06/27/2016	Aroclor-1260	0.1	0.086	ug/mL	86	85-115
	CCV2-1016-1260	PCB_2016-2-2, PCB_2016-1-14	06/27/2016	Aroclor-1016	0.02	0.022	ug/mL	110	80-120
		PCB_2016-2-2, PCB_2016-1-14	06/27/2016	Aroclor-1260	0.02	0.021	ug/mL	105	80-120
	CCV2- 1254	PCB_2016-2-2, PCB_2016-1-14	06/27/2016	Aroclor-1254	0.02	0.022	ug/mL	110	80-120
	CCV3-1016-1260	PCB_2016-2-2, PCB_2016-1-14	06/27/2016	Aroclor-1016	0.02	0.023	ug/mL	115	80-120
		PCB_2016-2-2, PCB_2016-1-14	06/27/2016	Aroclor-1260	0.02	0.021	ug/mL	105	80-120
	CCV3- 1254	PCB_2016-2-2, PCB_2016-1-14	06/27/2016	Aroclor-1254	0.02	0.022	ug/mL	110	80-120

% Rec = Percent recovery

* = Percent recovery not within control limits

NVL Laboratories, Inc.

4708 Aurora Ave N, Seattle, WA 98103
Tel: 206.547.0100 Emerg.Cell: 206.914.4646
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

1613176

Client NVL Field Services Division
Street 4708 Aurora Ave. N.
Seattle, WA 98103

NVL Batch Number
Client Job Number 2012-494
Total Samples 16
Turn Around Time ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days ☐ 2 Hrs ☐ 1 Day ☐ 4 Days ☐ 4 Hrs ☒ 2 Days ☐ 5 Days
Please call for TAT less than 24 Hrs

Project Manager Mr. Dave Leonard
Project Location 3317 3rd Avenue South
Seattle WA 98134

Email address Dave.l@nvllabs.com
Phone: (206) 547-0100 **Fax:** (206) 634-1936 **Cell** (b) (6)

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II) ☐ Other
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK
☐ Mold/Fungus	☐ Mold Air ☐ Mold Bulk	☐ Rotometer Calibration		

METALS: ☐ Total Metals ☐ TCLP ☐ Cr 6
Det. Limit: ☐ FAA (ppm) ☐ ICP (ppm) ☐ GFAA (ppl
Matrix: ☐ Air Filter ☐ Drinking water ☐ Dust/wipe (Area) ☐ Soil ☐ Paint Chips in % ☐ Paint Chips in cm ☐ Waste Water ☐ Other
RCRA Metals: ☐ Arsenic (As) ☐ Barium (Ba) ☐ Cadmium (Cd) ☐ Chromium (Cr) ☐ All 8 ☐ Lead (Pb) ☐ Mercury (Hg) ☐ Selenium (Se) ☐ Silver (Ag)
Other Metals: ☐ All 3 ☐ Copper (Cu) ☐ Nickel (Ni) ☐ Zinc (Zn)

Other Types of Analysis: ☐ Fiberglass ☐ Silica ☐ Nuisance Dust ☐ Respirable Dust ☒ Other (Specify) PCB BULK WIPE-EPA 8082 REPORTING LIMIT OF 0.050 ug/WIPE

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	AREA	A/R
1		PCB-0624-BLD15-200-A		100 CM2	
2		" " "-200-B		"	
3		" " "-200-C		"	
4		" " "-200-D		"	
5		" " "-E		"	
6		" " "-100-F		"	
7		" " " "-G		"	
8		" " " "-H		"	
9		" " " "-I		"	
10		" " " "-J		"	
11		" " "-CON-K		"	
12		" " "-CON-L		"	
13		" " "-200-M		"	
14		" " "-100-N		"	
15		" " "200-O		"	
16		" " "100-P			

	Print Below	Sign Below	Company	Date	Time
Sampled by	DAVE LEONARD	Dave Leonard	NVL	6-24-16	14:00
Relinquished by	" "	Dave Leonard	NVL	6-24-16	14:45
Received by	Mary Lynn			6/24/16	1445
Analyzed by	Shalini Patil		NVL	6-27-16	1400
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
RL OF 0.050 ug/WIPE REQUESTED
PCB AREA ALL SAMPLES = 100 CM2

RCLLC 0007291

June 28, 2016

Dave Leonard
NVL Field Services Division
4708 Aurora Ave. N.
Seattle, WA 98103

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Metals Analysis; NVL Batch # 1613185.00

Dear Mr. Leonard,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846 -3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm) , Percent (%) or mg/cm^2 by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft^2. TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m^3. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested and are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. if you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

for Nick Ly, Technical Director

ilac-MRA
AIHA LAP, LLC
ACCREDITED LABORATORY
INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
LAB # 101861

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Dave Leonard
Project Location: 3317 3rd Avenue South Seattle, WA 98134

Batch #: 1613185.00
Matrix: Wipe
Method: EPA 3051/ 6010C/7471B
Client Project #: 2012-494
Date Received: 6/24/2016
Samples Received: 16
Samples Analyzed: 16

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16234962	METALS-0624-BLDG645-200-A	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	6.6	6.6
		Copper (Cu)	1.00	4.0	7.1	7.1
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16234963	METALS-0624-BLDG645-200-B	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly
Date Analyzed: 06/27/2016
Date Issued: 06/28/2016

for Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot
ug / wipe = Micrograms per wipe
RL = Reporting Limit
'<' = Below the reporting Limit
Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft^2) not reported if sample area is zero.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2016-0627-09

RCLLC 0007293

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Dave Leonard
Project Location: 3317 3rd Avenue South Seattle, WA 98134

Batch #: 1613185.00
Matrix: Wipe
Method: EPA 3051/ 6010C/7471B
Client Project #: 2012-494
Date Received: 6/24/2016
Samples Received: 16
Samples Analyzed: 16

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16234964	METALS-0624-BLDG645-200-C	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16234965	METALS-0624-BLDG645-200-D	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 06/27/2016
Date Issued: 06/28/2016

for Nick Ly, Technical Director

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Bench Run No: 2016-0627-09

RCLLC 0007294

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Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Dave Leonard
Project Location: 3317 3rd Avenue South Seattle, WA 98134

Batch #: 1613185.00
Matrix: Wipe
Method: EPA 3051/ 6010C/7471B
Client Project #: 2012-494
Date Received: 6/24/2016
Samples Received: 16
Samples Analyzed: 16

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16234966	METALS-0624-BLDG645-200-E	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	6.9	6.9
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16234967	METALS-0624-BLDG645-100-F	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	16.0	16.0
		Mercury (Hg)	1.00	0.2	0.5	0.5
		Lead (Pb)	1.00	4.0	27.0	27.0
		Copper (Cu)	1.00	4.0	19.0	19.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	62.0	62.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 06/27/2016
Date Issued: 06/28/2016

for Nick Ly, Technical Director

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Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Dave Leonard
Project Location: 3317 3rd Avenue South Seattle, WA 98134

Batch #: 1613185.00
Matrix: Wipe
Method: EPA 3051/ 6010C/7471B
Client Project #: 2012-494
Date Received: 6/24/2016
Samples Received: 16
Samples Analyzed: 16

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16234968	METALS-0624-BLDG645-100-G	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	12.0	12.0
		Mercury (Hg)	1.00	0.2	0.5	0.5
		Lead (Pb)	1.00	4.0	17.0	17.0
		Copper (Cu)	1.00	4.0	10.0	10.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	41.0	41.0
16234969	METALS-0624-BLDG645-100-H	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	7.0	7.0
		Mercury (Hg)	1.00	0.2	0.5	0.5
		Lead (Pb)	1.00	4.0	16.0	16.0
		Copper (Cu)	1.00	4.0	15.0	15.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	46.0	46.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 06/27/2016
Date Issued: 06/28/2016

for Nick Ly, Technical Director

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Analysis Report

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Attention: Mr. Dave Leonard
Project Location: 3317 3rd Avenue South Seattle, WA 98134

Batch #: 1613185.00
Matrix: Wipe
Method: EPA 3051/ 6010C/7471B
Client Project #: 2012-494
Date Received: 6/24/2016
Samples Received: 16
Samples Analyzed: 16

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16234970	METALS-0624-BLDG645-100-I	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	21.0	21.0
		Mercury (Hg)	1.00	0.2	0.8	0.8
		Lead (Pb)	1.00	4.0	45.0	45.0
		Copper (Cu)	1.00	4.0	27.0	27.0
		Nickel (Ni)	1.00	4.0	5.1	5.1
		Zinc (Zn)	1.00	4.0	1100.0	1100.0
16234971	METALS-0624-BLDG645-100-J	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	26.0	26.0
		Mercury (Hg)	1.00	0.2	1.2	1.2
		Lead (Pb)	1.00	4.0	60.0	60.0
		Copper (Cu)	1.00	4.0	44.0	44.0
		Nickel (Ni)	1.00	4.0	8.3	8.3
		Zinc (Zn)	1.00	4.0	300.0	300.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 06/27/2016
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for Nick Ly, Technical Director

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Attention: Mr. Dave Leonard
Project Location: 3317 3rd Avenue South Seattle, WA 98134

Batch #: 1613185.00
Matrix: Wipe
Method: EPA 3051/ 6010C/7471B
Client Project #: 2012-494
Date Received: 6/24/2016
Samples Received: 16
Samples Analyzed: 16

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16234972	METALS-0624-BLDG645-CON-K	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16234973	METALS-0624-BLDG645-CON-L	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 06/27/2016
Date Issued: 06/28/2016

for Nick Ly, Technical Director

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Total Metals

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Attention: Mr. Dave Leonard
Project Location: 3317 3rd Avenue South Seattle, WA 98134

Batch #: 1613185.00
Matrix: Wipe
Method: EPA 3051/ 6010C/7471B
Client Project #: 2012-494
Date Received: 6/24/2016
Samples Received: 16
Samples Analyzed: 16

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16234974	METALS-0624-BLDG645-200-M	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	6.2	6.2
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16234975	METALS-0624-BLDG645-100-N	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	8.4	8.4
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 06/27/2016
Date Issued: 06/28/2016

for Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot
ug / wipe = Micrograms per wipe

RL = Reporting Limit
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft^2) not reported if sample area is zero.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

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Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Dave Leonard
Project Location: 3317 3rd Avenue South Seattle, WA 98134

Batch #: 1613185.00
Matrix: Wipe
Method: EPA 3051/ 6010C/7471B
Client Project #: 2012-494
Date Received: 6/24/2016
Samples Received: 16
Samples Analyzed: 16

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16234976	METALS-0624-BLDG645-200-O	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Mercury (Hg)	1.00	0.2	< 0.2	< 0.2
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16234977	METALS-0624-BLDG645-100-P	Silver (Ag)	1.00	4.0	< 4.0	< 4.0
		Arsenic (As)	1.00	4.0	< 4.0	< 4.0
		Cadmium (Cd)	1.00	4.0	< 4.0	< 4.0
		Chromium (Cr)	1.00	4.0	12.0	12.0
		Mercury (Hg)	1.00	0.2	0.5	0.5
		Lead (Pb)	1.00	4.0	31.0	31.0
		Copper (Cu)	1.00	4.0	150.0	150.0
		Nickel (Ni)	1.00	4.0	5.0	5.0
		Zinc (Zn)	1.00	4.0	220.0	220.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 06/27/2016
Date Issued: 06/28/2016

for Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot
ug / wipe = Micrograms per wipe

RL = Reporting Limit
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft^2) not reported if sample area is zero. Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2016-0627-09

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Tel: 206.547.0100 Emerg.Cell: 206.914.4646
Fax: 206.634.1936 1.888.NVL.LABS (685.5227)

CHAIN of CUSTODY SAMPLE LOG

1613185

Client NVL Field Services Division
Street 4708 Aurora Ave. N.
Seattle, WA 98103

NVL Batch Number
Client Job Number 2012-494
Total Samples 16
Turn Around Time ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days ☐ 2 Hrs ☐ 1 Day ☐ 4 Days ☐ 4 Hrs ☒ 2 Days ☐ 5 Days
Please call for TAT less than 24 Hrs

Project Manager Mr. Dave Leonard
Project Location 3317 3rd Avenue South
Seattle, WA 98134

Email address Dave.l@nvllabs.com
Phone: (206) 547-0100 **Fax:** (206) 634-1936 **Cell** (b) (6)

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II) ☐ Other
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK
☐ Mold/Fungus	☐ Mold Air ☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☒ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Paint Chips in %	☒ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☒ ICP (ppm)	☐ Drinking water	☐ Paint Chips in cm	☐ Barium (Ba)	☒ Lead (Pb)	☒ Copper (Cu)
☐ Cr 6	☐ GFAA (ppl	☒ Dust/wipe (Area)	☐ Waste Water	☒ Cadmium (Cd)	☒ Mercury (Hg)	☒ Nickel (Ni)
		☐ Soil	☒ Other DIGESTATE	☒ Chromium (Cr)	☐ Selenium (Se)	☒ Zinc (Zn)
					☐ Silver (Ag)	☒ SILVER (Ag)

Other Types of Analysis			
☐ Fiberglass	☐ Nuisance Dust	☐ Other (Specify)	
☐ Silica	☐ Respirable Dust		

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments (e.g Sample are, Sample Volume, etc)	A/R
1		METALS-0624-BLDG5-200-A		
2		" " " " -B		
3		" " " " -C		
4		" " " " -D		
5		" " " " -E		
6		" " " -100-F		
7		" " " " -G		
8		" " " " -H		
9		" " " " -I		
10		" " " " -J		
11		" " " -CON_K		
12		" " " -CON-L		
13		" " " -200-M		
14		" " " -100-N		
15		" " " -200-O		
		" " " -100-P		

	Print Below	Sign Below	Company	Date	Time
Sampled by	DAVE LEONARD	Dave Leonard	NVL	6-24-16	14:00
Relinquished by	"	Dave Leonard	"	6-24-16	14:45
Received by	Mark Raymond			6/24/16	1440
Analyzed by	Shalini Patel		NVL	6-27-16	1100
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.

1613185

Maxwell Raymond

From: Dave Leonard
Sent: Friday, June 24, 2016 4:25 PM
To: Maxwell Raymond
Subject: Re: Sample Wipe Area for Metals

Follow Up Flag: Follow up
Flag Status: Completed

Hi,
Thanks for asking.
For the metals samples - all are 1 square foot .
Please call me if you need more info or a new revised COC.
Thanks,
Dave
206-498-0326

Dave Leonard CIH
Industrial Hygiene Consultant
NVL Laboratories, Inc.

Email: Dave.L@nvllabs.com

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Seattle, WA 98103
1.888.NVL.LABS (685.5227)
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Fax: 206.634.1936
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From: Maxwell Raymond
Sent: Friday, June 24, 2016 3:47:26 PM
To: David Leonard
Cc: Dave Leonard
Subject: Sample Wipe Area for Metals

Good afternoon,

Please provide an area for the dust wipe samples submitted earlier this afternoon. We won't be able to process the samples until the area is received. Thanks!

Thanks and regards,

August 31, 2016

Mr. Munaf Khan

NVL Field Services Division
4708 Aurora Ave. N.
Seattle, 98103

Re: **NVL Batch 1617458.00**

Project Name/Number: 2012-494

Project location: 3100 Airport Way South, Seattle, WA 98134

Dear Mr. Khan,

Enclosed please find test results for samples submitted to our laboratory for analysis. Preparation and analysis of these samples were conducted in accordance with published industry standards and methods specified on the attached analytical report.

The content of this package consists of the following:

-Case Narrative & Definition of Data Qualifiers
-Analytical Test Results
-Applicable QC Summary
-Client Chain-of-Custody (CoC)
-NVL Receiving Record

The report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client will be discarded after two weeks.

Thank you for using our laboratory services. If you need further assistance, please contact us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

Enclosure: Sample Results

Case Narrative:

The following summarizes samples received on date as shown on the accompanied Chain of custody by NVL Laboratories, Inc. from NVL Field Services Division for Project number: 2012-494. Samples were logged in for PCB analysis per client request using both customer sample ID's and laboratory assigned ID's as listed on the Chain-of-Custody (CoC). All samples as received were processed and analyzed within specified turnaround time without any abnormalities and deviations that may affect the analytical results. All quality control requirements were acceptable unless stated otherwise. The conditions of all samples were acceptable at time of receipt and all samples submitted with this batch were analyzed unless stated otherwise on the CoC.

Test Results are reported as microgram per hundred square centimeters (ug/100cm2) for PCB samples as shown on the analytical reports.

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Definition Appendix

Terms

% Rec	Percent recovery.
<	Below Reporting Limit(RL) or Limit of Quantitation(LoQ) of the instrument.
B	Blank contamination. The recorded results is associated with a contaminated blank.
DF	Dilution Factor
J	The reported concentration is an estimated value because something may be present in the sample that interfered with the analysis.
J1	The reported concentration is an estimated value because the laboratory control sample (LCS) is out of control limits.
J2	The reported concentration is an estimated value because the percent recovery for matrix spike is out of control limits.
J3	The reported concentration is an estimated value because the relative percent difference(RPD) for duplicate analysis is out of control limits.
J4	Percent recovery is outside of established control limits.
LCS	Laboratory Control Sample.
LFS	Laboratory Fortified Spike
Limits	The upper and lower control limits for spike recoveries.
LN	Quality control sample is outside of control limits. This analyte was not detected in the sample.
LOQ	Limit of quantitation(same as RL)
mg/kg	Milligrams per kilogram.
ND	Analyte not detected or below the reporting limit of the instrument or methodology

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Definition Appendix

Terms

PPM	Parts per Million.
QC Batch Group	Quality Control Batch Group. The entity that links analytical results and supporting quality control results.
R	The data are not reliable due to possible contamination or loss of material during preparation or analysis. Re-sampling and reanalysis are necessary for verification.
RL	Reporting Limit. The minimum concentration that can be quantified under routine operating conditions.
RPD	Relative Percent Difference. The relative difference between duplicate results(matrix spike, blank spike, or samples duplicate) expressed as a percentage.
RPD Limit	The maximum RPD allowed for a set of duplicate measurements(see RPD).
SMI	Surrogate has matrix interference.
Spike Conc.	The measured concentration, in sample basis units, of a spiked sample.
SURR-ND	Surrogate was not detected due to matrix interference or dilution.
ug/m3	Micrograms per cubic meter.
ug/mL	Micrograms per milliliter
ug	Microgram
ug/100cm2	Micrograms per 100 square centimeters

ORGANICS LABORATORY SERVICES

NVL LABS

Company	NVL Field Services Division	**NVL Batch Number**	**1617458.00**
Address	4708 Aurora Ave. N. Seattle, WA 98103	**TAT** 5 Days	**AH** No
		Rush TAT	
Project Manager	Mr. Munaf Khan	**Due Date** 9/1/2016	**Time** 4:50 PM
Phone	(206) 547-0100	**Email**	munaf.k@nvllabs.com
Cell:	(b) (6)	**Fax**	(206) 634-1936

Project Name/Number: 2012-494 **Project Location:** 3100 Airport Way South Seattle, WA 98134

Subcategory Quantitative analysis

Item Code ORG-03 **Method** 8082 PCB Aroclors <Wipe>

Total Number of Samples 19 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	16258804	PCB-0825-BLD15-200-A		A
2	16258805	PCB-0825-BLD15-200-B		A
3	16258806	PCB-0825-BLD15-200-C		A
4	16258807	PCB-0825-BLD15-200-D		A
5	16258808	PCB-0825-BLD15-200-E		A
6	16258809	PCB-0825-BLD15-100-F		A
7	16258810	PCB-0825-BLD15-100-G		A
8	16258811	PCB-0825-BLD15-100-H		A
9	16258812	PCB-0825-BLD15-100-I		A
10	16258813	PCB-0825-BLD15-100-J		A
11	16258814	PCB-0825-BLD15-FB-K		A
12	16258815	PCB-0825-BLD15-FB-L		A
13	16258816	PCB-0825-BLD15-200-M		A
14	16258817	PCB-0825-BLD15-100-N		A
15	16258818	PCB-0825-BLD15-200-O		A
16	16258819	PCB-0825-BLD15-100-P		A
17	16258820	PCB-0825-NEW-100-Q		A
18	16258821	PCB-0825-NEW-200-R		A
19	16258822	PCB-0825-NEW-300-S		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Mohammed Jamal		NVL	8/25/16	1650
Analyzed by	Evelyn Ahulu	Evelyn	NVL	8/29/16	17:30
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions: ilims run # 485

Entered By: Mohammed Jamal Date: 8/25/2016 Time: 5:11 PM 1 of 1

RCLLC 0007307

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Client	**NVL Field Services Division**	Samples Received*	**19**
SDG Number	**1617458.00**	Analyzed By	**Evelyn Ahulu**
Date Reported	**08/31/2016**	Samples Analyzed*	**19**
Project Number	**2012-494**	Analysis Method	**8082A**
Location	**3100 Airport Way South, Seattle, WA 98134**	Preparation Method	**3546PR (PCB)**

* for this test only

Sample Number	**PCB-0825-BLD15-200-A**	Received	08/25/2016
Lab Sample ID	16258804	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

Sample Number	**PCB-0825-BLD15-200-B**	Received	08/25/2016
Lab Sample ID	16258805	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-BLD15-200-C**	Received	08/25/2016
Lab Sample ID	16258806	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

Sample Number	**PCB-0825-BLD15-200-D**	Received	08/25/2016
Lab Sample ID	16258807	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-BLD15-200-E**	Received	08/25/2016
Lab Sample ID	16258808	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

Sample Number	**PCB-0825-BLD15-100-F**	Received	08/25/2016
Lab Sample ID	16258809	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-BLD15-100-G**	Received	08/25/2016
Lab Sample ID	16258810	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

Sample Number	**PCB-0825-BLD15-100-H**	Received	08/25/2016
Lab Sample ID	16258811	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-BLD15-100-I**	Received	08/25/2016
Lab Sample ID	16258812	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

Sample Number	**PCB-0825-BLD15-100-J**	Received	08/25/2016
Lab Sample ID	16258813	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-BLD15-FB-K**	Received	08/25/2016
Lab Sample ID	16258814	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

Sample Number	**PCB-0825-BLD15-FB-L**	Received	08/25/2016
Lab Sample ID	16258815	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-BLD15-200-M**	Received	08/25/2016
Lab Sample ID	16258816	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

Sample Number	**PCB-0825-BLD15-100-N**	Received	08/25/2016
Lab Sample ID	16258817	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-BLD15-200-O**	Received	08/25/2016
Lab Sample ID	16258818	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

Sample Number	**PCB-0825-BLD15-100-P**	Received	08/25/2016
Lab Sample ID	16258819	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	0.078	08/29/2016
Aroclor-1260	0.050	0.072	08/29/2016
PCBs, Total	**0.050**	**0.15**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-NEW-100-Q**	Received	08/25/2016
Lab Sample ID	16258820	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	0.07	08/29/2016
Aroclor-1260	0.050	0.068	08/29/2016
PCBs, Total	**0.050**	**0.138**	**08/29/2016**

Sample Number	**PCB-0825-NEW-200-R**	Received	08/25/2016
Lab Sample ID	16258821	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	0.05	08/29/2016
PCBs, Total	**0.050**	**0.05**	**08/29/2016**

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ANALYSIS REPORT

Polychlorinated Biphenyls by Gas Chromatography

Sample Number	**PCB-0825-NEW-300-S**	Received	08/25/2016
Lab Sample ID	16258822	Matrix	Dust Wipe
Initial Sample Size	100 cm2	Units of Result	ug/100cm2

Analyte	RL	Final Result	Analysis Date
Aroclor-1016	0.050	< 0.050	08/29/2016
Aroclor-1221	0.050	< 0.050	08/29/2016
Aroclor-1232	0.050	< 0.050	08/29/2016
Aroclor-1242	0.050	< 0.050	08/29/2016
Aroclor-1248	0.050	< 0.050	08/29/2016
Aroclor-1254	0.050	< 0.050	08/29/2016
Aroclor-1260	0.050	< 0.050	08/29/2016
PCBs, Total	**0.050**	**<0.05**	**08/29/2016**

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Quality Control Results

Project Number:	**2012-494**	**SDG Number:**	**1617458**
		Project Manager:	**Munaf Khan**
QC Batch(es):	**Q492**	Analysis Method:	**8082A**
QC Batch Method:	3546PR (PCB)	Analysis Description:	Polychlorinated Biphenyls by Gas Chromatography
Preparation Date:	08/26/2016		

Blank: BLK-1617458

Analyte	Blank Result	Units	DF	RL	Control Limit	Qualifiers
Aroclor-1016	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1221	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1232	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1242	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1248	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1254	ND	ug/100cm2	1	0.050	0.05	
Aroclor-1260	ND	ug/100cm2	1	0.050	0.05	
PCBs, Total	ND	ug/100cm2	1	0.050	0.05	
Surrogates:				% Rec		
Tetrachloro-m-xylene			1	108	40-140	
Decachlorobiphenyl			1	119	40-140	

Lab Control Sample: LCS-1254-1617458

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	% Rec Limits	Qualifiers
Aroclor-1254	0.17	ug/100cm2	1	0.200	85	40-140	
Surrogates:							
Tetrachloro-m-xylene			1		112	40-140	
Decachlorobiphenyl			1		113	40-140	

Lab Control Sample: LCS-1016-1260-1617458
Lab Control Sample Duplicate: LCS Dup-1016-1260-1617458

Analyte	Blank Spike Result	Units	DF	Spike Conc.	% Rec	Limits	RPD	RPD Limit	Qualifiers
Aroclor-1016	0.164	ug/100cm2	1	0.200	82	40-140			
	0.164			0.200	82	40-140	0	50	
Aroclor-1260	0.178	ug/100cm2	1	0.200	89	40-140			
	0.172			0.200	86	40-140	3	50	
Surrogates:									
Tetrachloro-m-xylene			1		108	40-140			
					107	40-140			
Decachlorobiphenyl			1		122	40-140			
					126	40-140			

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Surrogate Recovery Summary Report

Client NVL Field Services Division **SDG Number** 1617458

Project 2012-494

Customer Sample ID	Lab Sample ID	Analyte	Recovery	Limits
PCB-0825-BLD15-200-A	16258804	Decachlorobiphenyl	96%	40-140
PCB-0825-BLD15-200-A	16258804	Tetrachloro-m-xylene	83%	40-140
PCB-0825-BLD15-200-B	16258805	Decachlorobiphenyl	119%	40-140
PCB-0825-BLD15-200-B	16258805	Tetrachloro-m-xylene	81%	40-140
PCB-0825-BLD15-200-C	16258806	Decachlorobiphenyl	102%	40-140
PCB-0825-BLD15-200-C	16258806	Tetrachloro-m-xylene	91%	40-140
PCB-0825-BLD15-200-D	16258807	Decachlorobiphenyl	122%	40-140
PCB-0825-BLD15-200-D	16258807	Tetrachloro-m-xylene	110%	40-140
PCB-0825-BLD15-200-E	16258808	Decachlorobiphenyl	116%	40-140
PCB-0825-BLD15-200-E	16258808	Tetrachloro-m-xylene	97%	40-140
PCB-0825-BLD15-100-F	16258809	Decachlorobiphenyl	134%	40-140
PCB-0825-BLD15-100-F	16258809	Tetrachloro-m-xylene	109%	40-140
PCB-0825-BLD15-100-G	16258810	Decachlorobiphenyl	124%	40-140
PCB-0825-BLD15-100-G	16258810	Tetrachloro-m-xylene	102%	40-140
PCB-0825-BLD15-100-H	16258811	Decachlorobiphenyl	114%	40-140
PCB-0825-BLD15-100-H	16258811	Tetrachloro-m-xylene	83%	40-140
PCB-0825-BLD15-100-I	16258812	Decachlorobiphenyl	133%	40-140
PCB-0825-BLD15-100-I	16258812	Tetrachloro-m-xylene	113%	40-140
PCB-0825-BLD15-100-J	16258813	Decachlorobiphenyl	126%	40-140
PCB-0825-BLD15-100-J	16258813	Tetrachloro-m-xylene	107%	40-140
PCB-0825-BLD15-FB-K	16258814	Decachlorobiphenyl	129%	40-140
PCB-0825-BLD15-FB-K	16258814	Tetrachloro-m-xylene	113%	40-140
PCB-0825-BLD15-FB-L	16258815	Decachlorobiphenyl	138%	40-140
PCB-0825-BLD15-FB-L	16258815	Tetrachloro-m-xylene	111%	40-140
PCB-0825-BLD15-200-M	16258816	Decachlorobiphenyl	124%	40-140
PCB-0825-BLD15-200-M	16258816	Tetrachloro-m-xylene	112%	40-140
PCB-0825-BLD15-100-N	16258817	Decachlorobiphenyl	115%	40-140
PCB-0825-BLD15-100-N	16258817	Tetrachloro-m-xylene	100%	40-140
PCB-0825-BLD15-200-O	16258818	Decachlorobiphenyl	116%	40-140

* Recovery outside limits

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Surrogate Recovery Summary Report

Client NVL Field Services Division **SDG Number** 1617458

Project 2012-494

Customer Sample ID	Lab Sample ID	Analyte	Recovery	Limits
PCB-0825-BLD15-200-O	16258818	Tetrachloro-m-xylene	101%	40-140
PCB-0825-BLD15-100-P	16258819	Decachlorobiphenyl	127%	40-140
PCB-0825-BLD15-100-P	16258819	Tetrachloro-m-xylene	89%	40-140
PCB-0825-NEW-100-Q	16258820	Decachlorobiphenyl	115%	40-140
PCB-0825-NEW-100-Q	16258820	Tetrachloro-m-xylene	89%	40-140
PCB-0825-NEW-200-R	16258821	Decachlorobiphenyl	118%	40-140
PCB-0825-NEW-200-R	16258821	Tetrachloro-m-xylene	96%	40-140
PCB-0825-NEW-300-S	16258822	Decachlorobiphenyl	117%	40-140
PCB-0825-NEW-300-S	16258822	Tetrachloro-m-xylene	97%	40-140
BLK-1617458	BLK-1617458	Decachlorobiphenyl	119%	40-140
BLK-1617458	BLK-1617458	Tetrachloro-m-xylene	108%	40-140
LCS Dup-1016-1260-1617458	LCS Dup-1016-1260-1617458	Decachlorobiphenyl	126%	40-140
LCS Dup-1016-1260-1617458	LCS Dup-1016-1260-1617458	Tetrachloro-m-xylene	107%	40-140
LCS-1016-1260-1617458	LCS-1016-1260-1617458	Decachlorobiphenyl	122%	40-140
LCS-1016-1260-1617458	LCS-1016-1260-1617458	Tetrachloro-m-xylene	108%	40-140
LCS-1254-1617458	LCS-1254-1617458	Decachlorobiphenyl	113%	40-140
LCS-1254-1617458	LCS-1254-1617458	Tetrachloro-m-xylene	112%	40-140

* Recovery outside limits

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INITIAL AND CONTINUING CALIBRATION VERIFICATION

SDG No: **1617458** Contract:

Determination: **8082 PCB Aroclors <Wipe>**

Run	Sample	Source	Analyzed	Analyte	True	Found	Unit	% Rec	Limits
R000485	CCV1 1016-1260	PCB_2016-1-10	08/29/2016	Aroclor-1016	0.1	0.1	ug/mL	100	80-120
		PCB_2016-1-10	08/29/2016	Aroclor-1260	0.1	0.104	ug/mL	104	80-120
	CCV1 1254	PCB_2016-1-11	08/29/2016	Aroclor-1254	0.1	0.107	ug/mL	107	80-120
	ICV 1016-1254-1260	PCB_2016-1-15	08/29/2016	Aroclor-1016	0.1	0.09	ug/mL	90	85-115
		PCB_2016-1-15	08/29/2016	Aroclor-1254	0.1	0.086	ug/mL	86	85-115
		PCB_2016-1-15	08/29/2016	Aroclor-1260	0.1	0.087	ug/mL	87	85-115
	CCV2 1016-1260	PCB_2016-1-10	08/29/2016	Aroclor-1016	0.1	0.113	ug/mL	113	80-120
		PCB_2016-1-10	08/29/2016	Aroclor-1260	0.1	0.114	ug/mL	114	80-120
	CCV2 1254	PCB_2016-1-11	08/29/2016	Aroclor-1254	0.1	0.116	ug/mL	116	80-120
	CCV3 1016-1260	PCB_2016-1-10	08/29/2016	Aroclor-1016	0.1	0.114	ug/mL	114	80-120
		PCB_2016-1-10	08/29/2016	Aroclor-1260	0.1	0.115	ug/mL	115	80-120
	CCV3 1254	PCB_2016-1-11	08/29/2016	Aroclor-1254	0.1	0.118	ug/mL	118	80-120

% Rec = Percent recovery

* = Percent recovery not within control limits

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CHAIN of CUSTODY SAMPLE LOG

1617458

Client: NVL Laboratories Inc
Street: 4708 Aurora Ave N
Seattle, WA 98103
Project Manager: Munaf Khan
Project Location: 3100 Airport Way South
Seattle, WA 98134

NVL Batch Number:
Client Job Number: 2012-494
Total Samples: 19
Turn Around Time: ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days ☐ 2 Hrs ☐ 1 Day ☐ 4 Days ☐ 4 Hrs ☐ 2 Days ☒ 5 Days
Please call for TAT less than 24 Hrs
Email address:

Phone: (206) 447-0263 Fax: (206) 447-0299

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II) ☐ Other
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK
☐ Mold/Fungus	☐ Mold Air ☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8 / ☐ Chromium (Cr	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in %	☐ Barium (Ba)	☐ Lead (Pb)	☐ Copper (Cu)
☐ Cr 6	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Paint Chips in cm	☐ Cadmium (Cd)	☐ Mercury (Hg)	☐ Nickel (Ni) ☐ Zinc (Zn)

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☒ Other (Specify) PCB BULK WIPE - EPA 8082
☐ Silica ☐ Respirable Dust REPORTING LIMIT OF 0.050 ug/WIPE

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1	PCB-0825-BLD05		- 200 - A	AREA 100 CM2
2		BLD15	- " B	
3			- " C	
4			- " D	
5			- " E	
6			- 100 - F	
7			- " G	
8			- " H	
9			- " I	
10			- " J	
11			- FB K	
12			- FB L	
13			- 200 M	
14			- 100 N	
15			- 200 O	

	Print Below	Sign Below	Company	Date	Time
Sampled by	DAVE LEONARD		NVL	8-25-16	1530
Relinquished by	DAVE LEONARD		NVL	8-25-16	1650
Received by	Richard J.		NVL	8-29-16	1630
Analyzed by	Evelyn Ahuly		NVL	8/29/16	1730
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Results report to PAGE 1 of 2 RL of 0.050 ug/WIPE REQUESTED PCB

NVL Laboratories, Inc.
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p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

CHAIN of CUSTODY SAMPLE LOG

1617458

Client: NVL Laboratories Inc
Street: 4708 Aurora Ave N
Seattle, WA 98103
Project Manager: Munaf Khan
Project Location: 3100 Airport Way South
Seattle, WA 98134

NVL Batch Number:
Client Job Number: 2012-494
Total Samples: 19
Turn Around Time: ☐ 1 Hr ☐ 6 Hrs ☐ 3 Days ☐ 10 Days ☐ 2 Hrs ☐ 1 Day ☐ 4 Days ☐ 4 Hrs ☐ 2 Days ☒ 5 Days
Please call for TAT less than 24 Hrs
Email address:

Phone: (206) 447-0263 Fax: (206) 447-0299

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK	
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in %	☐ Barium (Ba)	☐ Chromium (Cr	☐ Copper (Cu)
☐ Cr 6	☐ GFAA (ppb)	☐ Dust/wipe (Area)	☐ Paint Chips in cm	☐ Cadmium (Cd)	☐ Lead (Pb)	☐ Nickel (Ni)
					☐ Mercury (Hg)	☐ Zinc (Zn)

☐ Other Types of Analysis ☐ Fiberglass ☐ Nuisance Dust ☒ Other (Specify) PCB BULK WIPE - EPA 8082
☐ Silica ☐ Respirable Dust RL OF 0.050 ug/WIPE

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	A/R
1		PCB-0825-BLD15-100-P	AREA 100 CM2	
2		NEW-100-Q		
3		NEW-200-R		
4		NEW-300-S		
5				
6				
7				
8				
9				
10				
11				
12				
13				
14				
15				

	Print Below	Sign Below	Company	Date	Time
Sampled by	DAVE LEONARD		NVL	8-25-16	1530
Relinquished by	DAVE LEONARD		NVL	8-25-16	1650
Received by	Mohammed Jamil		NVL	8-25-16	16:50
Analyzed by	Evelyn Thulu		NUL	8/29/16	17:30
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Results report to PAGE 20 of 2 PCB RL OF 0.050 ug/WIPE REQUESTED

August 31, 2016

Munaf Khan
NVL Field Services Division
4708 Aurora Ave. N.
Seattle, WA 98103

NVL LABS
INDUSTRIAL HYGIENE SERVICES
Laboratory | Management | Training

RE: Metals Analysis; NVL Batch # 1617457.00

Dear Mr. Khan,

Enclosed please find the test results for samples submitted to our laboratory for analysis. Preparation of these samples was conducted following protocol outlined in EPA Method SW 846 -3051 unless stated otherwise. Analysis of these samples was performed using analytical instruments in accordance with U.S. EPA, NIOSH, OSHA and other ASTM methods.

For matrix materials submitted as paint, dust wipe, soil or TCLP samples, analysis for the presence of total metals is conducted using published U.S. EPA Methods. Paint and soil results are usually expressed in mg/Kg which is equivalent to parts per million (ppm). Lead (Pb) in paint is usually expressed in mg/Kg (ppm) , Percent (%) or mg/cm^2 by area. Dust wipe sample results are usually expressed in ug/wipe and ug/ft^2. TCLP samples are reported in mg/L (ppm). For air filter samples, analyses are conducted using NIOSH and OSHA Methods. Results are expressed in ug/filter and ug/m^3. Other matrix materials are analyzed accordingly using published methods or specified by client. The reported test results pertain only to items tested and are not blank corrected.

For recent regulation updates pertaining to current regulatory levels or permissible exposure levels, please call your local regulatory agencies for more details.

This report is considered highly confidential and will not be released without your approval. Samples are archived for two weeks following analysis. Samples that are not retrieved by the client are discarded after two weeks.

Thank you for using our laboratory services. if you need further assistance please feel free to call us at 206-547-0100 or 1-888-NVLLABS.

Sincerely,

Nick Ly, Technical Director

ilac-MRA

AIHA LAP, LLC
ACCREDITED LABORATORY
INDUSTRIAL HYGIENE & ENVIRONMENTAL LEAD
ISO/IEC 17025:2005
WWW.AIHAACCREDITEDLABS.ORG
LAB # 101861

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Munaf Khan
Project Location: 3100 Airport Way South Seattle, WA 98134

Batch #: 1617457.00
Matrix: Wipe
Method: EPA 3051/ 6010C
Client Project #: 2012-494
Date Received: 8/25/2016
Samples Received: 19
Samples Analyzed: 19

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16258785	Metals-0825-BLD15-200-A	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16258786	Metals-0825-BLD15-200-B	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	6.7	6.7
16258787	Metals-0825-BLD15-200-C	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	16.0	16.0
16258788	Metals-0825-BLD15-200-D	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	8.9	8.9
16258789	Metals-0825-BLD15-200-E	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	17.0	17.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 08/30/2016
Date Issued: 08/31/2016

Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot
ug / wipe = Micrograms per wipe

RL = Reporting Limit
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft^2) not reported if sample area is zero.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2016-0830-08

RCLLC 0007325

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Munaf Khan
Project Location: 3100 Airport Way South Seattle, WA 98134

Batch #: 1617457.00
Matrix: Wipe
Method: EPA 3051/ 6010C
Client Project #: 2012-494
Date Received: 8/25/2016
Samples Received: 19
Samples Analyzed: 19

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16258790	Metals-0825-BLD15-100-F	Chromium (Cr)	1.00	4.0	18.0	18.0
		Lead (Pb)	1.00	4.0	9.5	9.5
		Copper (Cu)	1.00	4.0	11.0	11.0
		Nickel (Ni)	1.00	4.0	4.2	4.2
		Zinc (Zn)	1.00	4.0	48.0	48.0
16258791	Metals-0825-BLD15-100-G	Chromium (Cr)	1.00	4.0	7.2	7.2
		Lead (Pb)	1.00	4.0	9.4	9.4
		Copper (Cu)	1.00	4.0	17.0	17.0
		Nickel (Ni)	1.00	4.0	19.0	19.0
		Zinc (Zn)	1.00	4.0	79.0	79.0
16258792	Metals-0825-BLD15-100-H	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	10.0	10.0
		Copper (Cu)	1.00	4.0	8.0	8.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	28.0	28.0
16258793	Metals-0825-BLD15-100-I	Chromium (Cr)	1.00	4.0	6.1	6.1
		Lead (Pb)	1.00	4.0	8.9	8.9
		Copper (Cu)	1.00	4.0	17.0	17.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	80.0	80.0
16258794	Metals-0825-BLD15-100-J	Chromium (Cr)	1.00	4.0	8.2	8.2
		Lead (Pb)	1.00	4.0	7.8	7.8
		Copper (Cu)	1.00	4.0	22.0	22.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	120.0	120.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly
Date Analyzed: 08/30/2016
Date Issued: 08/31/2016

Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot
ug / wipe = Micrograms per wipe
RL = Reporting Limit
'<' = Below the reporting Limit
Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft^2) not reported if sample area is zero.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2016-0830-08

RCLLC 0007326

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Munaf Khan
Project Location: 3100 Airport Way South Seattle, WA 98134

Batch #: 1617457.00
Matrix: Wipe
Method: EPA 3051/ 6010C
Client Project #: 2012-494
Date Received: 8/25/2016
Samples Received: 19
Samples Analyzed: 19

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16258795	Metals-0825-BLD15-FB-K	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16258796	Metals-0825-BLD15-FB-L	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0
16258797	Metals-0825-BLD15-200-M	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	4.3	4.3
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	32.0	32.0
16258798	Metals-0825-BLD15-100-N	Chromium (Cr)	1.00	4.0	5.3	5.3
		Lead (Pb)	1.00	4.0	11.0	11.0
		Copper (Cu)	1.00	4.0	37.0	37.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	86.0	86.0
16258799	Metals-0825-BLD15-200-O	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	< 4.0	< 4.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly
Date Analyzed: 08/30/2016
Date Issued: 08/31/2016

Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot
ug / wipe = Micrograms per wipe
RL = Reporting Limit
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft^2) not reported if sample area is zero.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2016-0830-08

RCLLC 0007327

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

Analysis Report

Total Metals

Client: NVL Field Services Division
Address: 4708 Aurora Ave. N.
Seattle, WA 98103

Attention: Mr. Munaf Khan
Project Location: 3100 Airport Way South Seattle, WA 98134

Batch #: 1617457.00
Matrix: Wipe
Method: EPA 3051/ 6010C
Client Project #: 2012-494
Date Received: 8/25/2016
Samples Received: 19
Samples Analyzed: 19

Lab ID	Client Sample #	Elements	Sample Sq ft	RL in ug / sq ft	Results in ug / wipe	Results in ug / sq ft
16258800	Metals-0825-BLD15-100-P	Chromium (Cr)	1.00	4.0	10.0	10.0
		Lead (Pb)	1.00	4.0	16.0	16.0
		Copper (Cu)	1.00	4.0	42.0	42.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	130.0	130.0
16258801	Metals-0825-NEW-100-Q	Chromium (Cr)	1.00	4.0	13.0	13.0
		Lead (Pb)	1.00	4.0	8.7	8.7
		Copper (Cu)	1.00	4.0	40.0	40.0
		Nickel (Ni)	1.00	4.0	5.5	5.5
		Zinc (Zn)	1.00	4.0	160.0	160.0
16258802	Metals-0825-NEW-200-R	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	5.2	5.2
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	45.0	45.0
16258803	Metals-0825-NEW-300-S	Chromium (Cr)	1.00	4.0	< 4.0	< 4.0
		Lead (Pb)	1.00	4.0	< 4.0	< 4.0
		Copper (Cu)	1.00	4.0	< 4.0	< 4.0
		Nickel (Ni)	1.00	4.0	< 4.0	< 4.0
		Zinc (Zn)	1.00	4.0	49.0	49.0

Sampled by: Client
Analyzed by: Shalini Patel
Reviewed by: Nick Ly

Date Analyzed: 08/30/2016
Date Issued: 08/31/2016

Nick Ly, Technical Director

ug/ sq. ft. =Micrograms per square foot
ug / wipe = Micrograms per wipe

RL = Reporting Limit
'<' = Below the reporting Limit

Note : Method QC results are acceptable unless stated otherwise. Concentration (ug/ft^2) not reported if sample area is zero.
Unless otherwise indicated, the condition of all samples was acceptable at time of receipt.

Bench Run No: 2016-0830-08

RCLLC 0007328

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
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METAL LABORATORY SERVICES

Company NVL Field Services Division
Address 4708 Aurora Ave. N.
Seattle, WA 98103
Project Manager Mr. Munaf Khan
Phone (206) 547-0100
Cell: (b) (6)

NVL Batch Number **1617457.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 9/1/2016 **Time** 4:50 PM
Email munaf.k@nvllabs.com
Fax (206) 634-1936

Project Name/Number: 2012-494 **Project Location:** 3100 Airport Way South Seattle, WA 98134

Subcategory Inductively Coupled Plasma (ICP) - Group Tests
Item Code ICP-M4 EPA 6010B (price per analyte) <bulk/dust>
Metals Chromium (Cr), Lead (Pb), Copper (Cu), Nickel (Ni), Zinc (Zn)

Total Number of Samples 19 Rush Samples

	Lab ID	Sample ID	Description	A/R
1	16258785	Metals-0825-BLD15-200-A		A
2	16258786	Metals-0825-BLD15-200-B		A
3	16258787	Metals-0825-BLD15-200-C		A
4	16258788	Metals-0825-BLD15-200-D		A
5	16258789	Metals-0825-BLD15-200-E		A
6	16258790	Metals-0825-BLD15-100-F		A
7	16258791	Metals-0825-BLD15-100-G		A
8	16258792	Metals-0825-BLD15-100-H		A
9	16258793	Metals-0825-BLD15-100-I		A
10	16258794	Metals-0825-BLD15-100-J		A
11	16258795	Metals-0825-BLD15-FB-K		A
12	16258796	Metals-0825-BLD15-FB-L		A
13	16258797	Metals-0825-BLD15-200-M		A
14	16258798	Metals-0825-BLD15-100-N		A
15	16258799	Metals-0825-BLD15-200-O		A
16	16258800	Metals-0825-BLD15-100-P		A
17	16258801	Metals-0825-NEW-100-Q		A
18	16258802	Metals-0825-NEW-200-R		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Mohammed Jamal		NVL	8/25/16	1650
Analyzed by	Shalini Patel		NVL	8/30/16	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 8/25/2016
Time: 5:08 PM
Entered By: Justin Shearer

RCLLC 0007329

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

METAL LABORATORY SERVICES

Company NVL Field Services Division
Address 4708 Aurora Ave. N.
Seattle, WA 98103
Project Manager Mr. Munaf Khan
Phone (206) 547-0100
Cell: (b) (6)

NVL Batch Number **1617457.00**
TAT 5 Days **AH** No
Rush TAT
Due Date 9/1/2016 **Time** 4:50 PM
Email munaf.k@nvllabs.com
Fax (206) 634-1936

Project Name/Number: 2012-494 **Project Location:** 3100 Airport Way South Seattle, WA 98134

Subcategory Inductively Coupled Plasma (ICP) - Group Tests
Item Code ICP-M4 EPA 6010B (price per analyte) <bulk/dust>
Metals Chromium (Cr), Lead (Pb), Copper (Cu), Nickel (Ni), Zinc (Zn)

Total Number of Samples 19 Rush Samples

	Lab ID	Sample ID	Description	A/R
19	16258803	Metals-0825-NEW-300-S		A

	Print Name	Signature	Company	Date	Time
Sampled by	Client				
Relinquished by	Client				

Office Use Only	Print Name	Signature	Company	Date	Time
Received by	Mohammed Jamal		NVL	8/25/16	1650
Analyzed by	Shalini Patel		NVL	8/30/16	
Results Called by					
☐ **Faxed** ☐ **Emailed**					

Special Instructions:

Date: 8/25/2016
Time: 5:08 PM
Entered By: Justin Shearer

RCLLC 0007330

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

CHAIN of CUSTODY SAMPLE LOG

1617457

Client: NVL Laboratories Inc
Street: 4708 Aurora Ave N, Seattle, WA 98103
Project Manager: Munaf Khan
Project Location: 3100 Airport Way South, Seattle, WA 98134

NVL Batch Number:
Client Job Number: 2012-494
Total Samples: 19
Turn Around Time: ☐ 1 Hr ☐ 2 Hrs ☐ 4 Hrs ☐ 6 Hrs ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☒ 5 Days ☐ 10 Days
Please call for TAT less than 24 Hrs
Email address:

Phone: (206) 447-0263 Fax: (206) 447-0299

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK	
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in %	☐ Barium (Ba)	☒ Chromium (Cr	☒ Copper (Cu)
☐ Cr 6	☐ GFAA (ppb)	☒ Dust/wipe (Area)	☐ Paint Chips in cm	☐ Cadmium (Cd)	☒ Lead (Pb)	☒ Nickel (Ni)
					☐ Mercury (Hg)	☒ Zinc (Zn)

☐ Other Types of Analysis: ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) _____ ☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	AREA	A/R
1	METALS-0825	BLD#15-200-A		1 SF	
2	"	" -BLD#15- " -B			
3	"	" BLD15 " -C			
4	"	" " " -D			
5	"	" " " -E			
6	"	" " 100-F			
7	"	" " " -G			
8	"	" " " -H			
9	"	" " " -I			
10	"	" " " J			
11	"	" " " FB K			
12	"	" " " FB L			
13	"	" " 200 M			
14	"	" " 100 #N			
15	"	" " 200 O			

	Print Below	Sign Below	Company	Date	Time
Sampled by	DAVE LEONARD		NVL	8-25-11	1550
Relinquished by	DAVE LEONARD		NVL	8-25-11	1640
Received by	Mohammad Jawl		NVL.	8-25 16.	1650.
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Results report to PAGE 1 of 2

NVL Laboratories, Inc.
4708 Aurora Ave N, Seattle, WA 98103
p 206.547.0100 | f 206.634.1936 | www.nvllabs.com

CHAIN of CUSTODY SAMPLE LOG

1617457

Client: NVL Laboratories Inc
Street: 4708 Aurora Ave N, Seattle, WA 98103
Project Manager: Munaf Khan
Project Location: 3100 Airport Way South, Seattle, WA 98134

NVL Batch Number:
Client Job Number: 2012-494
Total Samples: 19
Turn Around Time: ☐ 1 Hr ☐ 2 Hrs ☐ 4 Hrs ☐ 6 Hrs ☐ 1 Day ☐ 2 Days ☐ 3 Days ☐ 4 Days ☒ 5 Days ☐ 10 Days
Please call for TAT less than 24 Hrs
Email address:

Phone: (206) 447-0263 Fax: (206) 447-0299

☐ Asbestos Air	☐ PCM (NIOSH 7400)	☐ TEM (NIOSH 7402)	☐ TEM (AHERA)	☐ TEM (EPA Level II)	☐ Other
☐ Asbestos Bulk	☐ PLM (EPA/600/R-93/116)	☐ PLM (EPA Point Count)	☐ PLM (EPA Gravimetry)	☐ TEM BULK	
☐ Mold/Fungus	☐ Mold Air	☐ Mold Bulk	☐ Rotometer Calibration		

METALS	Det. Limit	Matrix		RCRA Metals		Other Metals
☐ Total Metals	☐ FAA (ppm)	☐ Air Filter	☐ Soil	☐ Arsenic (As)	☐ All 8	☐ All 3
☐ TCLP	☐ ICP (ppm)	☐ Drinking water	☐ Paint Chips in %	☐ Barium (Ba)	☒ Chromium (Cr	☒ Copper (Cu)
☐ Cr 6	☐ GFAA (ppb)	☒ Dust/wipe (Area)	☐ Paint Chips in cm	☐ Cadmium (Cd)	☒ Lead (Pb)	☒ Nickel (Ni)
					☐ Mercury (Hg)	☒ Zinc (Zn)

☐ Other Types of Analysis: ☐ Fiberglass ☐ Nuisance Dust ☐ Other (Specify) _____
☐ Silica ☐ Respirable Dust

Condition of Package: ☐ Good ☐ Damaged (no spillage) ☐ Severe damage (spillage)

Seq. #	Lab ID	Client Sample Number	Comments	AREA	A/R
1	METALS-0825-BLD	15-100-P		1SF	
2	"	"	NEW-100-Q	↓	
3	"	"	NEW-200-R		
4	"	"	NEW-300-S		
5					
6					
7					
8					
9					
10					
11					
12					
13					
14					
15					

	Print Below	Sign Below	Company	Date	Time
Sampled by	DAVE LEONARD		NVL	8-25-16	1530
Relinquished by	DAVE LEONARD		NVL	8-25-16	1640
Received by	Mohammad Sami		NVL	8-25-16	16:50
Analyzed by					
Results Called by					
Results Faxed by					

Special Instructions: Unless requested in writing, all samples will be disposed of two (2) weeks after analysis.
Results report to PAGE 2 of 2

RCLLC 0007332